BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to Balance Roads and Drains AK Colony Singapura Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Job No. 011-16-0000		P-1878				Estimate Cost Rs.		5000000.00
	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M200-12.2 : Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead and lead of 10000 meters complete as per specifications. lime/cement concrete, I.by manual means B. cement concrete grade M-15 & M-20. **No. 136 / Item No. 18.18 / PWD SR 2015-16**	Cum							
	AK Colony		1	100.00	4.00	0.15	60.00		
			1	45.00	4.00	0.15	27.00		
			1	40.00	4.00	0.15	24.00		
			1	60.00	4.00	0.15	36.00		
	SSM Fully Damaged Drain		2	155.00	0.60	0.80	148.80		
							295.80	375.24	**110996.00**
	Basic Rate	354.00							
	Area Weightage @ 6%	21.24							
	Total	**375.24**							
	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	Desilting of Drains Main Road		2	100.00	0.45	0.30	27.00		
			1	45.00	0.45	0.30	6.08		
			1	40.00	0.45	0.30	5.40		
			1	60.00	0.45	0.30	8.10		
	Main Road		1	100.00	4.00	0.10	40.00		
			1	45.00	4.00	0.10	18.00		
			1	40.00	4.00	0.10	16.00		
			1	60.00	4.00	0.10	24.00		
	CC Drain		1	190.00	1.20	1.20	273.60		
							418.18	81.62	**34131.00**
	Basic Rate	77.00							
	Area Weightage @ 6%	4.62							
	Total	**81.62**							
3	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		2	95.00		1.35	256.50		
		1	40.00		1.35	54.00		
		1	40.00		1.35	54.00		
		1	55.00		1.35	74.25		
						438.75	63.72	**27957.00**
Basic Rate	59.00							
Area Weightage @ 8%	4.72							
Total	**63.72**							
Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Sqm							
		Qty Vide Item No. 2				**438.75**	78.84	**34591.00**
Basic Rate	73.00							
Area Weightage @ 8%	5.84							
Total	**78.84**							
KSRB 2.8 : Providing and filling in foundation with granite/trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, **Page No. 6 / Item No. 2.15 / PWD SR 2015-16**	Cum							
CC Drain		1	190.00	1.20	0.30	68.40		
						68.40	2133.78	**145951.00**
Basic Rate	2013.00							
Area Weightage @ 6%	120.78							
Total	**2133.78**							
KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
AK Colony		1	100.00	4.00	0.15	60.00		
		1	45.00	4.00	0.15	27.00		
		1	40.00	4.00	0.15	24.00		
		1	60.00	4.00	0.15	36.00		
CC Drain		1	190.00	1.20	0.15	34.20		
						181.20	4976.70	**901778.00**
Basic Rate	4695.00							
Area Weightage @ 6%	281.70							
Total	**4976.70**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
AK Colony		2	100.00		0.30	60.00		
		2	45.00		0.30	27.00		
		2	40.00		0.30	24.00		
		2	60.00		0.30	36.00		
		4	190.00		1.20	912.00		
						1059.00	306.72	**324816.00**
Basic Rate	284.00							
Area Weightage @ 8%	22.72							
Total	**306.72**							
Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
Main Road		1	100.00	4.00	0.125	50.00		
		1	45.00	4.00	0.125	22.50		
		1	40.00	4.00	0.125	20.00		
		1	60.00	4.00	0.125	30.00		
CC Drain		1	190.00	1.20	0.15	34.20		
		2	190.00	0.20	1.20	91.20		
						247.90	6332.04	**1569713.00**
Basic Rate	5863.00							
Area Weightage @ 8%	469.04							
Total	**6332.04**							
KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).**	Tonne							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	taking 60kg/cum		0.10	125.40	—	—	**12.54**	59327.91	**743972.00**
	Basic Rate	54933.25							
	Area Weightage @ 8%	4394.66							
	Total	**59327.91**							
	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	Main Road		1	100.00	4.00		400.00		
			1	45.00	4.00		180.00		
			1	40.00	4.00		160.00		
			1	60.00	4.00		240.00		
							980.00	97.20	**95256.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 175 / Item No. 22.8.1 / PWD SR 2015-16**	Rmt							
			10	4.00			40.00		
			5	4.00			20.00		
			4	4.00			16.00		
			6	4.00			24.00		
							100.00	124.20	**12420.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
11	Providing **and Fixing precast RCC slab s of 100 mm thick** including cost of all materials,labour,curing,transportation,loading unloading,etc.,complete as per the direction of engineer in charge- Data rate	**sqm**							
	For Covering slabs		1	190.00	1.20		**228.00**	1760.00	**401280.00**
	Approved data rate	**1760.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. **Page No. 25 / Item No. 5.30 / PWD SR 2015-16**	Nos							
			1	190.00			422		
				0.45					
							422	320.76	**135432.00**
	Basic Rate	297.00							
	Area Weightage @ 8%	23.76							
	Total	**320.76**							
	KSRB 15.19.1 : Providing and applying ready mix **priming coat over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughtly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm							
	For kerb stones		1	190.00		0.35	66.50		
							66.50	27.00	**1796.00**
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							
	KSRB 15.20.1 : Providing and applying floor **painting with ready mix two coats** (Excluding priming coat) on new s concrete / masonry / asbestos cement sheet / / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.83 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 11				66.50		
							66.50	51.84	**3447.00**
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							
15	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**418.18**	100.08	**41850.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Average weight of earth 1.28 tonne / kg for 2X1.28X11.90=30.46	30.46							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		92.66							
	Area Weightage @ 8%	7.41							
	Total	**100.08**							
	Sub Total								**4585386.00**
	KRIDL Charges @ 8%								**366831.00**
	QC Charges @ 1%								**45854.00**
	Miscesalaneous Charges								**1929.00**
								Total	**5000000.00**

Rupees Fifty Lakh(s) Only

TIFICATE

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per C.S.R. of PWD 2015-16.
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 20/9/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs .. 50 lakh
Rupees fifty thousand
Under P-1878

Technical Sanction
Accorded For 50.00 lakh Rs.
Head of A/C... P-1878
CER NO :.....58..... Dt:..28.09.16

TA CE (YNK)

Regist... Sanctioned
enclosed ... Dt...
Jc(v)PA/AS/09/2016-17
dated 27-9-2016 Rs. 50,00,000

29/9/16
Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92